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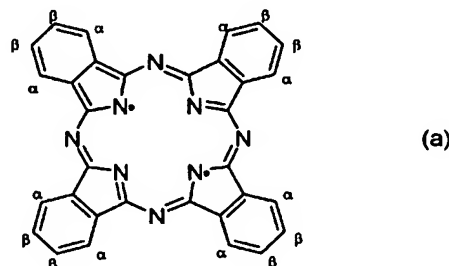
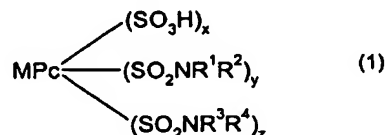
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(54) Title: **PHTHALOCYANINES AND THEIR USE IN INK-JET PRINTERS**



(57) Abstract: A composition comprising: (a) a major dye component which is a mixture of phthalocyanine dyes of Formula (1) and salts thereof: wherein: M is Cu or Ni; PC represents a phthalocyanine nucleus of formula (a); R<sup>1</sup> and R<sup>2</sup> independently are H or optionally substituted C<sub>1-4</sub>alkyl; R<sup>3</sup> is H or optionally substituted hydrocarbyl; and R<sup>4</sup> is optionally substituted hydrocarbyl; or R<sup>3</sup> and R<sup>4</sup> together with the nitrogen atom to which they are attached represent an optionally substituted aliphatic or aromatic ring system; x is 0.1 to 3.8; y is 0.1 to 3.8; z is 0.1 to 3.8; the sum of (x+y+z) is 4; and the substituents, represented by x, y and z, are attached only to a β-position on the phthalocyanine ring; and (b) a liquid medium which comprises water and an organic solvent or an organic solvent free from water. Also novel dyes, ink-jet printing processes, printed images, and cartridges.